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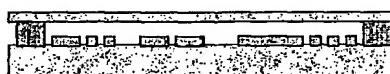
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(54) Title: MOLECULAR STAMP FOR PRINTING BIOMOLECULES ONTO A SUBSTRATE



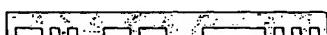
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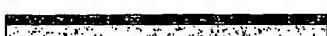
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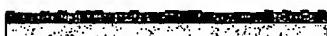
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(57) Abstract: The invention pertains to a molecular stamp for printing biomolecules onto a substrate comprising a hydrophylic polymeric gel and a patterned surface, characterized in that the gel has at least 20 % crosslink density. Preferably, the stamp comprises a gel which is obtainable by polymerizing at least one of a water soluble ethylenically unsaturated and/or epoxidized monomer containing at least one functional group selected from a hydroxyl, alkoxy, amine, alkyl substituted amine, carboxylic acid, carboxylic ester, carboxylic anhydride, carboxamide, isocyanate, carbamate, urethane, and urea group, in the presence of a polymerization initiator and optionally a chain transfer agent, and crosslinking the polymer with a crosslinker having at least two ethylenically unsaturated groups and/or epoxy groups.

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